

Name: \_\_\_\_\_

### p1029: Combine Like Terms (v16)

#### Example

Combine like terms.

$$-9x + 6x^2 + 2 - 2x^2 - 6x^2 + 7 + 5 + 9x + x - 7x$$

#### Answer

Combine the quadratic terms.

$$6x^2 - 2x^2 - 6x^2 \equiv -2x^2$$

Combine the linear terms.

$$-9x + 9x + x - 7x \equiv -6x$$

Combine the constant terms.

$$2 + 7 + 5 \equiv 14$$

The final result:

$$-2x^2 - 6x + 14$$

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#### Question 1

Combine like terms.

$$-2x^2 + 2x^2 + 9 + 5x^2 - 9x + 8 - x + 7x - 4 - 7$$

**Question 2**

Combine like terms.

$$-7 + 6 - 8x^2 + 2x^2 - 6x + 4x^2 + 8x + 9x - 9 - 5x^2$$

**Question 3**

Combine like terms.

$$-x + x + 2x - 6 + 8x^2 - 8x^2 - 9 + 7x^2 - 3 + 6$$

**Question 4**

Combine like terms.

$$-3x^2 - 7 + 3x^2 + 5 - 5x + x + 2x - 9x^2 - 1 - 8x$$